

the HAMATEUR

This newsletter is published monthly for the amateurs represented by the Radio Clubs listed. Reproduction, with credit given, is granted for anything appearing within the HAMATEUR. Deadline date for the month is the 5th. Publication date is the 28th.

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QCWA.....W9VQD...Travis Baird....352-9642	Tri-County..K9LJM...Horace Hilker...Milton
6 MIC....WB9OPD...Bob Pettigrew....447-1307	

WA9 Just Mouthing Off

I would like to welcome the four members of the Milwaukee School of Engineering (MSOE) based 146.19/79 repeater group into our fold. Their machine should be fully operational by the time we go to press, giving some nice coverage from the downtown area.

Beginning with this month's HAMATEUR, the content of same will be available on cassette tape, courtesy of Lynn Tamblyn, K9KR, and his lovely wife. Howie, WA9TOP, will reproduce copies from the master tape and distribute them to those wishing the audio copies. The tapes should arrive on the date the HAMATEUR normally does. Those wishing these or knowing of someone who does should contact Howie Kaufmann, WA9TOP, 2848 N. Murray, Milwaukee, WI 53211, or catch him on two meters—31/91 is a good bet.

The HAMATEUR roster is still in the working stages—the big hurdle is the machine for reproducing the master list. Hopefully someone will lend us the use of such an item and we can then begin production on the combined roster.

73's Larry McCalvy, WA9JMO

CLUB News

6-MIC

SIX METER INTEREST CLUB

6-MIC

June of '77 lived up to my prediction of last month....a six meter extravaganza! Wisconsin 6M operators were treated to the "48" several times over, most of Canada, Mexico, Bahamas and Jamaica. What a month for the contests—SMIRK, VHF, and Field Day! The record books will have to be rewritten!

June of '77 also produced the "heartbreak" story of the year. On the ninth WA9DOT copied the KH6EQI auto-beacon for more than two hours. After many unanswered calls, Jim resorted to the landline to the Islands. None of the 6M ops there were available. Jim's crying towel will be a long time a-drying after that one. June of '77....a time to renew old friendships. Lyle, K7OO, (ex K9DKW) was worked during the VHF contest. Jon, K7NV, (ex K9REE) checked into the 6 MIC net on the 26th.

The 6 MIC meeting of the 19th was short on attendance but long on fun. Not much club business was transacted; however, several members stayed over to enjoy the Village of Belgium's carnival. Thanks to Marsh and Lina, WB9FZU and XYL, for hosting a most pleasant session. Time and place of the next 6 MIC meeting has not yet been decided. That info will be passed out via our nets.

CQ QST—don't forget the 6 MIC picnic on August 21 at Wirth Park, area #1. All are welcome....\$2.00 per adult and \$1.00 for those under 18 years. World's best roast corn, 807's and sodas will be supplied. To make your reservations, call Kathy, XYL of WA9KOB, 691-1320, on or before August 7.

LATE FLASH On July 3, WA9HUX, Jim; WA9DOT, Jim, and WB9SJQ, Sheldon, worked WH6HI via CW on six meters. Your reporter heard but could not work Bert....a case over excitement. Jim, WA9DOT, with receipt of the Hawaiian QSL card, qualifies for his W.A.S. on six meters, only one of about 146 issued. At this time a search is on for other Wisconsin six meter W.A.S. holders, but so far all those checked are no longer active in nine land.

73 Bob, WB9OPD

MEETING: Tuesday, August 2, 1977, 7:30 PM at Red Cross Building, 26th & Wisconsin Ave.

NEW APPOINTMENTS: N9BE, Bill McLane, replaces WA9POV as Station Trustee and Assist. EC for Repeater Operations. W9VBQ, Tom Murtaugh, replaces N9BE as Assist. EC for NTS liaison. WA9POV, Dave Knaus, after 11 years of outstanding service to the ARES, has tendered his resignation as an Assist. EC so that he may pursue other activities. Dave has been one of our key members and among many other things, designed, built and installed the control logic, the Sheriff's patch and the Weather Service radio pick-up for our repeater. He also has served on the Board of Directors of the AREC, Inc., and has served as secretary, committee chairman, Assist. EC and EC of the Milwaukee County ARES. It is with deep regret that I must accept the resignation from one of our most valued members. We all wish Dave success in his new endeavors.

AREC, INC. BOARD MEMBERS TO BE SELECTED: All ARES members should be sure to be at the next meeting, (August 2) in order to participate in the selection of 3 new members of the Board of Directors of AREC, INC. as defined and specified under the new by-laws of the corporation. It is extremely important that you participate in these selections, as the corporation is a vital part of our ARES operations.

YOUR CALL SIGN ONLY FOR ID: There has been much confusion and a considerable amount of air time spent by amateur operators giving both their own call sign and the call sign of the station they are talking to at the beginning and end of their transmissions. After checking with both the Chicago and Washington D.C. offices of the F.C.C., we find this is custom and not an actual F.C.C. requirement. (The F.C.C. also indicated that the terminology used when they added a sentence to 97.87 Subpart D is misleading and really applies to net identifiers only.) We have been advised by the F.C.C. that the following interpretation is correct: "An amateur station need only identify his station by call sign at the beginning and end of the exchange of transmissions or at intervals not to exceed 10 min. There is no requirement that he must also give the call sign of the other station he is talking to at the beginning or end of the exchange of transmissions." We feel the habit of unnecessary identification of the other station hampers the operator during times of emergencies when brief communication procedures are required. If the brief station identification procedure is used by the operator during his casual communications, we feel it will assist him during times of emergency communications. We ask that all operators use this ID procedure on the 146.07/.67 ARES repeater.

Bob, WB9NNJ

RACINE MEGACYCLE CLUB

Our next meeting will be at the American Red Cross building between Racine and Kenosha on Taylor Ave Road, August 9, 7:30 P.M. Our dues are only \$3.00 yearly. Pay early....beat the rush. August 7 is the date of the next Kenosha breakfast. Be sure to check with the gang on .94 so you can attend.

The club will be helping with the move St. Mary's Hospital will be making soon. Check with WA9HOH, as all the help we can get will be needed for communications.

Our field day turned out 1st class and a good time was had by all. Special thanks goes to W9YYL for the fine job he did on the food and beer. Only a few problems existed. Antennas were not flat across the bands. We set up too close to the insane asylum. (One nut escaped. And, early in the AM with a wild look in his eyes, took me from behind, threw me on the ground and sat upon me. It's a good thing he was full of hot air, as this made him light.)

We found our trusty generator 10 kw burned oil....five quarts in 20 hours! We just changed it before the field day and put in a good grade of 10W30. It never burned a drop before this and any expert advice we can get will be appreciated.

I've just returned from the Dayton, Ohio, area and had a chance to visit with W8OK and K8AA. The Dayton group has a luncheon meeting each week that is well attended. They had a good field day. I got out to KBAA to see his CCD antenna and, gosh, I'll soon be working on one. W4FD just measured an actual 5db gain over a dipole with his 80 meter CCD antenna. See me after the meeting for information on this new antenna. The following is a message from Joel, K9MLD, RMC member and Pres of the Lakeshore Repeater: The Lakeshore Repeater 87/27 has been moved to a new and more permanent site to serve the Racine-Kenosha area. The system is now located at the Lakeshore Chapter of the Red Cross. The antenna is mounted on the 120 foot tower at the 100 foot level. It's a Sinclair commercial 25 ft long. The repeater is a Spectrum Communications repeater running about 25 watts. The Lakeshore Repeater is a joint effort by Racine-Kenosha amateurs to provide a local area coverage machine. We hope the move will improve the coverage.

Silent key...W4WXR, Otto Menn of West Palm Beach, Florida, retired Assistant Fire Chief of Kenosha, retired 1951.

W9HAG is looking for a 20 meter monobander. K9LWT is looking for a prop pitch or a good rotator for his large quad. Ex W9KZU was at field day and was talking about getting a license again. Sure was good to have N9FC, W9APB and the rest of you fine hams at field day.

73 Stu, W9HI

August Meeting: Wednesday, August 10, 1977, at Cedarburg CD Center, South of power plant, center of town, 7:30 PM. At press time no program was scheduled. By the time the meeting rolls around, another fine program should be ready. Tom K9ZPZ gave an excellent presentation on microprocessors at the July meeting. Concepts and systems were explained in a manner that just made a whole lot of sense. Many thanks from the club, Tom. Reports on Field Day were incomplete, but no disasters were encountered and many contacts were made. Complete statistics should be available by the next meeting. The next grand social event, the Corn Roast, has been set for August 14th at the QTH of Herb WA9UVK. Everybody hopes that the corn will be ready by then. The donation will be the same as last year - \$2.00 per head or \$5.00 per family. This is a family affair, and all are welcome, although the less well behaved kids are apt to be surreptitiously pushed over the edge of the Lake Michigan bluff. July 30th will find the communications team covering the Holland Days Festival at Cedar Grove with Danny WA9RPB, the Club's resident Dutchman, in charge. We all hope that nobody gets careless near the Klompen Dancers. Those wooden shoes can do a lot of damage. Very favorable reports have been received about the Club's participation in the Vince Lombardi Memorial Open. The news accounts to the effect that the Secret Service kept president Ford in touch with the condition of his victim at the hospital were false. The amateurs did this job. The news accounts are believed to be based on the reluctance of the Secret Service people to admit that they could not make the communications link. On July 14th the temperature in the repeater shack was 96° F. Would you believe that the gang was repairing the cooling fan? The new receiver for the remote site is rapidly nearing completion.

LATE NEWS FROM OZAUKEE

On May 1st David Brian arrived at the QTH of Ron WB9QHE and Ellen WB9QHF. The new arrival is doing very well indeed, even made Field Day. Ron explains that he only speaks to David in CW, while mother Ellen uses A3 when talking to the child. Little David should be a first class op in no time. Bob W9LO is thinking about moving. As soon as the antenna system is up at the new place, he will start thinking about the house. Barry WB9SFK is still hobbling around trying to convince everybody that he injured his foot playing baseball. Unfortunately it was his sending foot, so he hasn't been on CW lately. Danny WA9RPB spent ****TEN DOLLARS**** at the Oak Creek Hamfest. Lord only knows how much Bob W9DQS spent! Sus WB9BGJ reports that Cedarburg 31/91 cannot be heard in Salt Lake City, even on the hilltops. Come on Sus - its time you got a decent receiver.

73 Ed WA9BMA

147-93 IN

SOUTH EASTERN WISCONSIN AMATEUR RADIO SOCIETY

147-33 OUT

Big news this month is the annual club picnic, co-hosted this year by S.E.W.A.R.S. and the Kettle Moraine Radio Amateurs, to be held Sunday, August 21 at Horeb Park on Delafield St. in Waukesha. The Menomonee Falls Club will again have the honor of supplying the beer, due to a Field Day wager, but attendees should bring their own food and grills. Everyone is welcome. Come early, as we cannot reserve the shelter-it's first come, first served. There is also a public swimming pool in the park. We'll be monitoring the repeater and 94 for directions.

Butch, K9WQG, has the prototype of the PL oscillator working. It is about the size of a postage stamp, will put out the entire range of PL frequencies by adjusting a trimpot, and costs about \$4.00 in parts. Circuit Boards and schematics will be available shortly.

The work crew has installed mountings on the newwater tower for future antenna installations. Welding was done by WB9HCO and WB9TRO, with assistance from a small ground crew. We were all treated to a rare bit of insight from a young neighborhood boy, wearing a CB T-shirt, who, upon hearing that we were installing ham radio antennas, explained ham radio to his younger sister: "Ham radio is almost CB, except you don't heed a license."

Don't forget the Waukesha County ARES net on Monday nights at 9:30. Check ins have been good, considering that it is summer and many people are on vacation or otherwise busy.

73 de Bruce K1TMM/WB9BS0

146-25 IN

MILWAUKEE COUNTY REPEATER SOCIETY

146-85 OUT

FALL MEETING DRAWS NEAR The first fall meeting of WR9ABS scheduled for September 20 is now in the planning stages as far as location and guest speaker. Members can plan on many surprises for the upcoming year, as well as some new meeting locations. The next newsletter will give specific details as to exact time and location.

REPEATER REPORT Despite temperatures that soared well into the 90's and an abundance of local thunderstorms, our 25/85 machine performed admirably through it all—with zero down time.

WELL MONITORED SYSTEM ATTRACTS USERS All members are reminded that the reputation of our machine rests in the hands of its users. As users we should remind ourselves of a few simple guidelines which will make the infrequent user a regular member:

- (1) Don't key system every few minutes to say that you are listening or monitoring. If you want to call someone, call them. Nothing is worse than someone saying "WA9XXX monitoring" every 30 seconds!
 - (2) Although our system has an excellent autopatch which is a privilege for the members to use, members have to decide for themselves the necessity of the call....what may be important to one person may seem ridiculous to another.
 - (3) As with most 2-meter machines, anyone can tell that the busiest times are between 4:00 P.M. to 6:00 P.M. Members should remind themselves of this fact and not tie up the machine with endless chatter.
- With the continued cooperation of ALL members, our system can remain a system to be proud of.

73's DE Bill, WB9EFP

THE WISCONSIN CHAPTER
QUARTER CENTURY WIRELESS ASSOCIATION, INC.

We are happy to welcome Frank Seboth, W9NLY, of 6052 W. Darnel Ave. in Brown Deer, WI 53223, to our group. Frank served in the Army in WWII and has some interesting stories to tell about the natives and the Japanese soldiers in the Owen Stanley Mountains of New Guinea. He works for "Ma" Bell and is a part time policeman for Brown Deer. Don't speed through Brown Deer at night!

The Illinois-Wisconsin QCWA dinner held in conjunction with Radio Expo '77 will be on Friday evening, September 16, 1977, at the Holiday Inn in Mundelein, Ill. Radio Expo '77 will run Saturday and Sunday, September 17 and 18. For further info write Radio Expo Tickets, Box 1014, Arlington Heights, Ill. 60006.

It is time to make plans to attend our fall meeting at the Pine Hills Supper Club in Gresham, WI, about 10 miles west of Shawano, where our host will be Gordy Fedder, W9YFW. Gordy and Ruth are the champion blue gill fisherpersons of the Wolf River (Shawano area). Don't forget October 1 in Gresham!

73 Travis, W9VQD

146-31 IN

MILWAUKEE REPEATER CLUB

146-91 OUT

RE-ENACT MEMBERSHIP DRIVE At the May, 1977, meeting of the Milwaukee Repeater Club, I stated that introductory letters to new users of the 31/91 machine would no longer be sent. Rather, we would rely on "word-of-mouth" with present members to pursue new members. New memberships since that time have been rare, although new users have soared. Many new stations are not even aware that a club exists! Although we are an open repeater and membership is not required, voluntary support by our newcomers is practically non-existent. Let's all join in and get the MRC membership back up to where it should be!

1977 MRC ROSTER Plans are now being made for the 1977 membership roster. We are realizing an August print date with much work to be completed before then. If there is a mistake in last year's roster, please let Nels Harvey, WA9JOB, know now and help avoid last-minute corrections.

HAM RADIO BUMPER STICKERS STILL AVAILABLE We still have about 90 bumper stickers and window decals available. They read "Monitoring Ham Radio", are made of vinyl and are FREE! Bob Draeger, WA9KNH, of KMK Industries printed 150 of these stickers for us and you may obtain yours by sending a business-size self addressed stamped envelope to him at N69 W23806 Sari Ct., Sussex, WI 53089. Larry, WA9RWO

M · R · A · C

MILWAUKEE RADIO AMATEURS' CLUB

M · R · A · C

The next regular meeting of the Milwaukee Radio Amateurs' Club will be Thursday, September 22, at the Wauwatosa Savings & Loan Building, 7500 W. State Street. (Use the State Street entrance.) Meeting time is 7:30 P.M.

Membership dues time is rapidly approaching. Send your renewal payments to our new treasurer, Dave de Febo, WB9BWP, 4926 W. Oklahoma Ave., Milwaukee, WI 53219. Dues are still \$4.00 for regular and associates, and \$1.00 for students. AND for you LIFE members, a donation is always appreciated to cover rising postal costs among others.

The code/theory class for Novices and Generals held at the Wauwatosa East High School has moved into high gear with two classrooms and more than 30 students. The instructors are W9ZPV and W9MDG with help from W9SNK, W9UGN and W9VLK.

Our annual Old Timers Nite will be held again this year at the Pabst Blue Ribbon Hall, 9th and Juneau, on Wednesday, December 14. Mark your calendar now!

73's Al, W9MDG

146-22 IN

SOUTH EASTERN WISCONSIN FM AMATEUR REPEATER SOCIETY

146-82 OUT

Meeting: August 25, 1977, Thursday, at the WTMJ-TV studios on East Capitol Drive

ATTENTION ALL 22/82 MEMBERS: Club dues were due on July 1. Dues are \$10 yearly and checks should be made payable to SEWFARS Inc.

We took in one new member, Greg Lengling, WD9DHI. Welcome aboard pal!

Nominations for election of officers were held June 23 with Bob Richter, W9OOW, being the only member nominated for Club President. Tom, WB9GAD, declined the combined position of Secretary-Treasurer, but said, however, he would take the Treasurer's job alone if possible. Nominated for VP was Roy Davis, WB9RKS. Dave, K9CPP, declined a Secretary nomination.

The Delafield repeater now has a second receiver site in operation located at Dick, K9CAN's house on a temporary basis. The purpose of the new site is to give better coverage to those Hams in and around the north side of Milwaukee. Consequently, the club is looking for a site in the above mentioned area with a good deal of height. If you know of a building that would serve our purpose, contact Dick, K9CAN, or Bob, W9OOW. The technical committee is checking into some new co-ax and a new antenna for the repeater.

A new reporter was appointed. Jim Wiskow, WB9PKY, replaces Larry O'Hara, WA9JMA, who has taken a job in Indiana. We all wish Larry well.

73 Jim Wiskow, WB9PKY

TRI-COUNTY AMATEUR RADIO CLUB

September will be our next scheduled meeting and cornboil.

Congratulations are in order for Al Jordan, WD9DIT, our first licensee of the season. Al is really going after contacts. We wish him many QSO's.

We have some other members waiting for their tickets to arrive. Our newest member, Wes Clark, is working hard at the theory and building new equipment.

The following attended the Madison Swapfest: Glenn Eisenbrandt and son David, Norm Foltz, Al Jordan, Dick Lust, Larry O'Hara, John Satterlee, Dock Walters, Frank Woltman and Tom Wheeler. Dock mentioned that the three tables our club rented produced good sales results. The schedule of the theory class has been halted for the summer months.

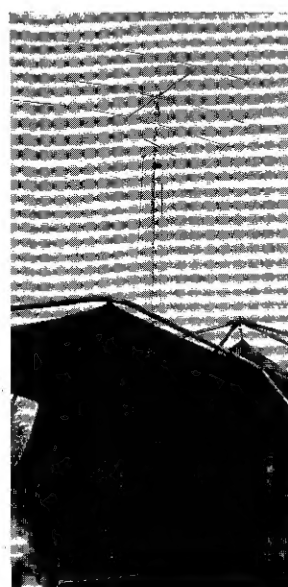
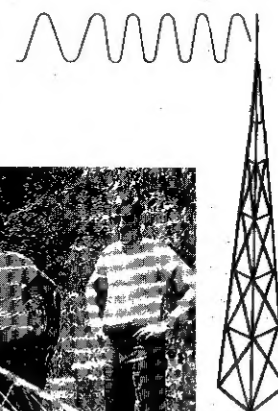
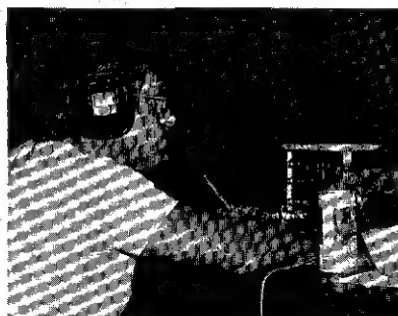
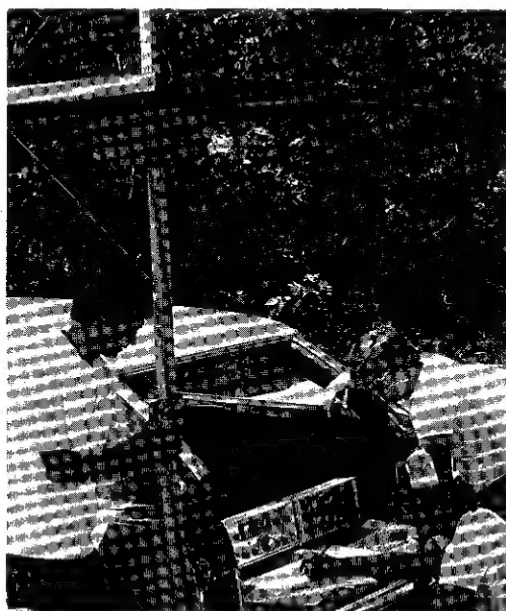
73's W9LJM Pres.

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Field Day '77 at a glance ...



the HAMATEUR
the HAMATEUR
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the HAMATEUR



Classified Ads

Until further notice, non-commercial ads will be accepted and published FREE for ALL Hamateur readers. Ads will be automatically published for two (2) consecutive issues, unless you request otherwise. If you wish to rerun or cancel an ad, please advise before the closing date of the next issue.

To insure the maximum success of "FOR SALE" ads, all items must include the asking price. Unless otherwise noted, phone listings are local Milwaukee numbers. CLOSING DATE for ads is the 2nd of the publication month. Direct AD COPY to: Don Habeck W9AMM, 5973 Sugarbush Lane, Greendale, WI 53129

FOR SALE: Heath SB-200 linear amplifier, mint condx; \$275. Contact Dan, W9ANC, 1013 Gray St., Green Bay, WI 54303 435-3045	FOR SALE: Yaesu YO-100 Monitor Scope, virtually brand new, works with most any xcvr or rcvr/xmtr pair; \$180. Contact John, WB9TIN, Kenosha 654-0030	FOR SALE: Regency HR-2A 2-mtr transceiver, 6 channels, complete with autopatch; \$115. Contact Larry WA9RWO, 547-1911
FOR SALE: Kenwood TS-520 xcvr with cw filter & microphone, less than 6 months old; \$600. Contact Al Foster, WB9ZBT (home 962-2795; work 344-1440)	FOR SALE: Heath HW-12 75-mtr ssb xcvr with homebrew ac pwr supply, with microphone; \$75. Contact Hutch, W9FTY, 242-1973; 11335 Linwood Ln, Mequon 53092	FOR SALE: Motorola HT-220 with 3 channels, extra xtals and accessories; \$325. Motorola Metrum 25-watt, 8 channels; \$225. Assorted 28TTY parts. Contact Larry, WB9JGC 481-9447
FOR SALE: HAL ST-6000 (with scope) Kleinschmidt TT-100, 60/66/75/100 wpr gears. Manuals; \$600. You pick up, Sister Bay. Contact Jeff, W9QBJ, R#1, Box 290, Sister Bay, 54234	FOR SALE: Clegg FM-27A 2-mtr synthesized xcvr, 25 watts; \$140. Contact K9SHJ, 421-4241	WANTED: Hy-Gain Hy-Tower. Contact John, WB9TIN, Kenosha, 654-0030
FOR SALE: Drake TR-22, 2-mtr xcvr with 11 channels, AA-10 Amplifier, 1525 EM Micoder; \$225. Contact Brian, WB9RZL 871-4579	FOR SALE: Collins KWM-2 (Waters); \$550. 516F2; \$115. 312B4 type console (homebrew excellent); \$100. 302C3 Wattmeter; \$75. Mike; \$25. 80-10 meters Linear Amplifier, 4-1000; \$350. 50 feet Rohn 25 Tower; \$125. Ham-M2; \$100. Mosely CL-36 beam; \$125. 40 & 80 meter trap dipole; \$15. All in superb condx. Will sell multiple purchases cheaper or all for \$1300. Contact S. Hochman, K9PYV, 5271 N. Shoreland, Milw. 53217 961-2030	WANTED: SB-34 xcvr with microphone; also can use vox unit and xtal calibrator for same. Contact Bob, W9THB, 258-8824
FOR SALE: Drake R4C factory serviced & aligned in Jan '77; \$400 or make offer. Mossly MP-33 Tri-band Beam; \$50. Good for 1000 Watt capabilities. Call Jim, K9JF, 421-2284		WANTED: Hy-Gain Rotor. Contact Paul, K9LWT, Racine 554-9170
		FREE BUMPER STICKERS: Read "Monitoring Ham Radio, Milwaukee Repeater Club." Available by sending a SASE (business size) to Bob Draeger, WA9KNH, N69 W23806 Sari Ct. Sussex, WI 53089



IT'S TRUE...BARGAINS STILL EXIST

In today's economy where it's becoming more and more difficult to find a real bargain, it's surprising that so few of you have taken advantage of the HAMATEUR Classified Ads. Not only do they get results, they're **FREE**! What more could you ask for?

In checking with previous users of the classified ads, I learned that late vintage commercial gear which was reasonably priced sold almost immediately. VHF equipment seemed to have a slight edge over HF. Older equipment generally took a bit longer but, if priced correctly, normally sold. In addition, equipment which did not sell when advertised in other publications has often times sold immediately when listed in the HAMATEUR.

To get your Classified Ad in the HAMATEUR is simple...and it doesn't take 2 to 3 months as in other publications. Just drop a note to W9AMM (QTH

listed in the Classified Ad Section) indicating what you wish to say. Anything related to amateur radio qualifies. There is no limit to the length or the number of times you wish it to be published. Include your name, call letters and phone number (and address if desired). Your address should be included if your QTH is outside the metro Milwaukee area. To insure the maximum success of "For Sale" ads, we ask that the asking price be included.

Your ad will run for 2 consecutive issues, unless cancelled prior to the next closing date. If you wish to rerun an ad, simply inform W9AMM of your desire. The new closing date is the 2nd of the publication month. Requests received after the closing date will be held over and published the following issue.

We need your help! We would like to at least double the number of listings next month. Why not list those items you have that are just collecting dust and turn them into cash. Or, do you have a need for some info or a piece of equipment? Your ad will be read by 1000 of your fellow club members having the same interest as you.

Don - W9AMM
Ass't Editor

STOP IN at the NEW QTH of WB9FZU
(Marsh & Lina Baker)



OUR PLACE



725 Main St. - Belgium, WI.

Closed Sunday

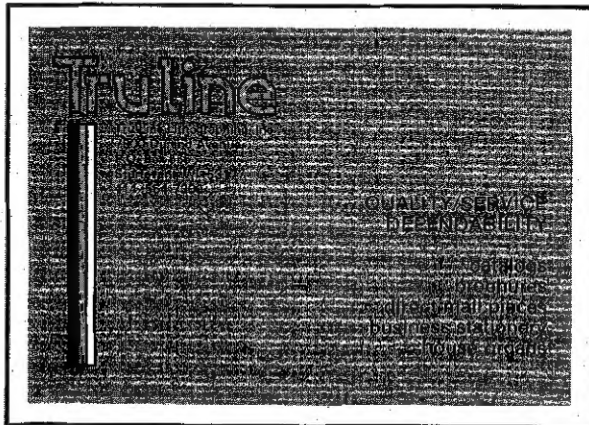
Enjoy a little QSO and have a FREE drink on us*

Charbroiled Sandwiches

Friday & Saturday SPECIAL...

FISH & BROASTED CHICKEN

*Present this ad for a Free drink
(Sorry...one free drink per customer)



Technical Topics

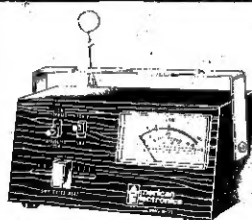
MODIFYING THE KENWOOD TR2200A TO ACCEPT A DRAKE 1525EM MIKE WITH TOUCH TONE PAD

The first step in mating these two units is to carefully read the directions for both. After completing this task you will know that the pad requires a keyed voltage of +7.5 to +15V. This voltage must be supplied thru pin 4 of the microphone socket. On the stock Kenwood this pin is grounded. There is a bare wire running from a ground lug to pin 4 and on to pin 3 of the microphone socket. A small .001 capacitor is also connected to pin 4 (the other end goes to pin 1). The braid of the internal audio cable is also grounded at pin 4. This mess must all be removed from pin 4. The capacitor should be regrounded to the bare wire or to pin 3 if you can get it to reach that far. The braid from the audio cable should be regrounded to the ground lug. By doing this you will reduce the clutter around pin 4.

Now the keyed voltage must be found. The schematic of the transmitter shows a switching transistor Q13. The collector of this transistor has +12V when the microphone is keyed. Note that the collector of Q13 is connected to point T13 which in turn is connected to the HI-LO transmitter power switch. T13 may be located by the "T13" which is printed on the circuit board or by the two orange wires wrapped around it. One of these wires goes to the middle connector on the outboard side (side closest to the case) of the HI-LO power switch. Solder a 1/4 watt 1K ohm resistor to this connector. Run the other end to pin 4 of the microphone socket and solder it there. This should now be the only connection to pin 4. The Kenwood is now ready to receive the Drake microphone. Good luck on your testing.

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KEN FORBORD ELECTRONICS



SWR/PWR/FS Meters
for hf & vhf.....\$17.95

VHF BASE & MOBILE ANTENNAS

5/8-wave, 3 db gain, with
trunk mount, cable & connector.\$18.95

1/4-wave, magnetic mount,
with cable & connector.....\$13.00

Ringo Ranger base antenna.....\$28.00

Hy-Gain Model 341 beam,
8-element, 14.5 db gain.....\$37.00



Self-contained, self-sensing ALARM SYSTEM
for cars, boats & trucks.....\$28.50

Scanner TMR type crystals for 2 mtrs & PSB...\$4.50

SPECIAL...This ad worth \$2.00 towards the
purchase of the above items \$13.00 or over.

MARINE SALES & SERVICE...CB EQUIPMENT

KEN FORBORD ELECTRONICS

KEN FORBORD - K6BKJ

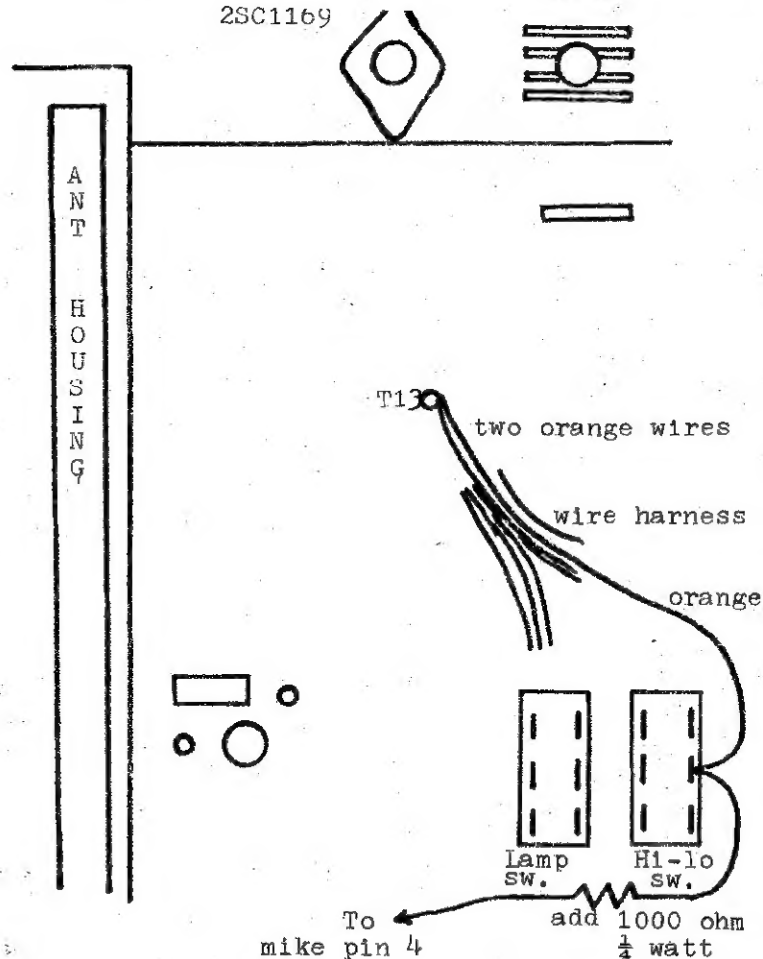
6912 W. LAYTON AVE.
GREENFIELD, WIS. 53220

PHONE 282-1244

John Kessler, K9SFJ

Drawing: WA9VNJ

2SC1169



the HAMATEUR

EDITOR: Larry McCalvy WA9JMO
7453 W. Thurston Circle
Milwaukee, Wisconsin 53218

JULY 28, 1977

Meeting Notices

07/67...Aug 2...Tuesday
Raceine...Aug 8...Monday
Ozaukee...Aug 10...Wednesday
CO3TUE...Aug 16...Tuesday
22/82...Aug 25...Thursday
MRAC...Sep 22...Thursday
Tr1 County...September
31/91...September
25/85...September
GCWA...Oct 1...Saturday
93/33...Oct 5...Wednesday
6-MIC...Unknown

Upcoming Events

July 31...MRAC Picnic
August 14...WOKY Radio Program
on Amateur radio
August 21...6-MIC Picnic

WB9DGL Sus Hunsbht
4921 N 58 St
M11W, W1M, 53218
PHED

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WISCONSIN REPEATER NEWS

BY JOHN LA BLONDE - W9FZC

In the previous two issues of the HAMATEUR, I attempted to bring you up-to-date as to the repeater activity on 2 meters throughout all of the state with the exception of the metropolitan Milwaukee area. In this issue, I will try to keep you posted on certain changes taking place throughout the state as of this writing. One of the biggest changes which has taken place happened on June 25, when the Madison Area Repeater Association (MARA) moved their 16/76 machine from the Channel 3 TV tower to the Channel 15 TV tower in Madison. It was quite a job and hard to believe that it took place completely in just eleven and one-half hours, lock stock and barrel. The change necessitated taking two antennae and coax down from Channel 3 at the 600 foot level and making a new installation at the 750 foot level on Channel 15. Of course, while the antenna work was progressing, the entire 16/76 repeater had to be moved to the new location. It was a magnificent job and the MARA club deserves a real pat on the back for the job done. Most of the tower work on both locations was handled by K9VDD Ralph Henes, and he deserves a real hand from everyone. There still is some extension bracket work to be done on the antenna since the antenna is too close to the TV tower and suffers at the moment with poor coverage towards the northeast of Madison. But the coverage east, south and west are terrific at this time and MARA's plan is to extend the bracket out more from the tower to improve coverage to the north. Congratulations MARA!!

This past week (June 21-23) I was working in the northern section of the state and found the 34/94 machine in Rhinelander was working in pretty good order towards Crandon, Eagle River and Tomahawk. The boys up there said they still have coax problems which they intend to solve shortly and that will extend their range by quite a few miles.

Also, this past week, while travelling up north, I had a chance to hear activity on 25/85 at Iron Mountain, Michigan. 147.72/12 at Green Bay also showed lots of action as did the 16/76 system on the Chilton tower. This 16/76 system is the old Appleton repeater in case some of you may have forgotten. Of course, the 22/82 system on Rib Mountain at Wausau is doing a real fine job. By the way, those of you who happen to travel in the Wausau area should take the time to drive up on Rib Mountain and see how far your rig will work on 2 meters. It will surprise you!! I went up there with my Wilson HT and worked through the Baraboo 28/88 machine to another ham over near LaCrosse.

In another month or so, I'll be working the northwest corner of the state and should be able to report to you a little more up-to-date info on the repeaters north and west of Eau Claire on up to the Superior-Duluth area. In the meantime, happy two metering to you and yours as you travel around the Badger State.